# H81TM-ITX

Intel® H81 Chipset

**Thin Mini-ITX Motherboard For AIO**

ASRock

## Product Brief

- A-Style : Home Cloud
- Solid Capacitors for CPU power
- Supports Dual Channel DDR3 1600 memory, 2 x SO-DIMM slots
- 1 x PCIe 2.0 x4, 1 x mini-PCIe
- Graphics Output Options: HDMI, DVI-I and LVDS
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
- Intel Gigabit LAN
- 2 x SATA3, 2 x USB 3.0, 6 x USB 2.0 (4 x Front, 2 x Rear)
- 1 x Digital MIC header
- Supports A-Tuning, XFast LAN, XFast RAM, Easy Driver Installer, FAN-Tastic Tuning, USB Key

Home Cloud | A-Tuning | FAN-Tastic Tuning | USB Key | UEFI Tech Service | Dehumidifier | Easy Driver Installer

XFast RAM — Fully Optimize Memory Usage

XFast LAN — Faster Internet Access

## Detail Specification

| | |
|---|---|
| Platform | - Thin Mini-ITX Form Factor<br>- Solid Capacitor for CPU power |
| A-Style | - Home Cloud |
| CPU | - Supports 4th generation Intel® Core™ i7 / i5 / i3 / Xeon® / Pentium® / Celeron® processors with up to 65W TDP in an LGA1150 package<br>- Supports Intel® Turbo Boost 2.0 Technology |
| Chipset | - Intel® H81 |
| Memory | - Dual Channel DDR3 Memory Technology<br>- 2 x DDR3 SO-DIMM Slots<br>- Supports DDR3 1600/1333/1066 non-ECC, un-buffered memory<br>- Max. capacity of system memory: 16GB<br>- Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2 |
| Expansion Slot | - 1 x PCI Express 2.0 x4 Slot<br>- 1 x mini-PCI Express Slot |
| Graphics | * Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.<br>- Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600<br>- Pixel Shader 5.0, DirectX 11.1<br>- Max. shared memory 1792MB<br>- Three graphics output options: HDMI, DVI-I and LVDS<br>- Supports Triple Monitor<br>- Supports HDMI Technology with max. resolution up to 4K × 2K (4096x2304) @ 24Hz<br>- Supports DVI-I with max. resolution up to 1920x1200 @ 60Hz<br>- Supports LVDS with max. resolution up to 1920x1200 @ 60Hz<br>- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required)<br>- Supports HDCP function with HDMI<br>- Supports Full HD 1080p Blu-ray (BD) playback with HDMI |
| Audio | - 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)<br>- Premium Blu-ray Audio support |
| LAN | - Gigabit LAN 10/100/1000 Mb/s<br>- Giga PHY Intel® I217V<br>- Supports Intel® Remote Wake Technology<br>- Supports Wake-On-LAN<br>- Supports Energy Efficient Ethernet 802.3az<br>- Supports PXE |
| Rear Panel I/O | - 1 x DC Jack<br>- 1 x DVI-I Port<br>- 1 x HDMI Port<br>- 2 x USB 2.0 Ports<br>- 2 x USB 3.0 Ports<br>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)<br>- HD Audio Jacks: Front Speaker / Microphone |
| Storage | - 2 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug |
| Connector | - 1 x CIR Header<br>- 1 x COM Port Header<br>- 1 x SPDIF Out Connector<br>- 1 x Backlight Power Jumper<br>- 1 x Panel Power Jumper<br>- 1 x Backlight & Amp Volume Control Header<br>- 1 x Power LED Header<br>- 1 x LVDS Connector<br>- 1 x LPC Debug Header<br>- 1 x Home Theater PC Header<br>- 1 x CPU Fan Connector (4-pin)<br>- 1 x Chassis Fan Connector (4-pin)<br>- 1 x Front Panel Audio Connector<br>- 1 x Analog Surround Audio Header<br>- 1 x Digital MIC Header<br>- 1 x 3W Audio AMP Output Wafer Header<br>- 1 x SATA Power Connector<br>- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) |
| BIOS Feature | - 32Mb AMI UEFI Legal BIOS with multilingual GUI support<br>- ACPI 1.1 Compliant wake up events<br>- SMBIOS 2.3.1 support<br>- CPU, DRAM Voltage multi-adjustment |
| Support CD | - Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), MeshCentral, Splashtop Streamer |
| Unique Feature | - ASRock A-Tuning<br>- ASRock Instant Flash<br>- ASRock APP Charger<br>- ASRock XFast LAN<br>- ASRock XFast RAM<br>- ASRock Crashless BIOS<br>- ASRock OMG (Online Management Guard)<br>- ASRock Internet Flash<br>- ASRock UEFI Tech Service<br>- ASRock Dehumidifier<br>- ASRock Easy Driver Installer<br>- ASRock Interactive UEFI<br>- ASRock Fast Boot<br>- ASRock Restart to UEFI<br>- ASRock USB Key<br>- ASRock FAN-Tastic Tuning<br>- Hybrid Booster:<br>  - ASRock U-COP<br>  - Boot Failure Guard (B.F.G.)<br>- Good Night LED |
| Hardware Monitor | - CPU/Chassis temperature sensing<br>- CPU/Chassis Fan Tachometer<br>- CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature)<br>- CPU/Chassis Fan multi-speed control<br>- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore |
| OS | - Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit |
| Certifications | - FCC, CE, WHQL<br>- ErP/EuP ready (ErP/EuP ready power supply is required) |
| Accessories | - Quick Installation Guide, Support CD, I/O Shields<br>- 2 x SATA Data Cables<br>- 1 x SATA 1 to 1 Power Cable<br>- 1 x WiFi Module Screw |

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

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Home Cloud

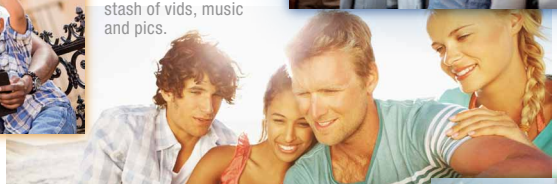
This motherboard supports remote wake with the onboard Intel LAN, so you can connect with your PC from anywhere in the world. You will be able to power your PC on or turn it off, monitor and take control of it remotely with another smartphone, tablet or computer.

**Mail**
Keep your stored mail near at hand whenever you need it.

**Documents**
Access or send files remotely anywhere.

**TV**
Watch your favorite local TV programs by connecting to your PC.

**Multimedia**
Stream your secret stash of vids, music and pics.



# Home Cloud

*Remote Desktop*
*Anytime,*
*Anywhere*

**Monitor**
Keep an eye on your pets or children when you are away from home.

Intel® Ethernet

SUPPORTED BY splashtop

## Scalable. Configurable. Serviceable .

Thin Mini ITX ➡ Standardized Components